

AMENDMENTS TO THE CLAIMS

Claims 1 and 2. (Canceled)

3. (Currently Amended) A program recording/reproducing apparatus, to which streaming signals of which a plurality of program signals are time-division-multiplexed based on an MPEG2-TS are inputted, for demultiplexing predetermined coded program signals out of the streaming signals and recording these program signals, said apparatus comprising:

an extracting unit that extracts ~~means for extracting~~ program packets of the predetermined coded program signals from the streaming signals;

a recording unit that records ~~means for recording~~ the respective program packets and a discarded packet count corresponding to ~~of the~~ number of packets discarded between two ~~consecutive~~ consecutively recorded program packets;

a reading unit that reads ~~means for reading~~ the coded program signals out of said recording unit ~~means~~; and

a speed converting unit that outputs ~~means for outputting~~ the coded program signals read out by said reading unit ~~means~~ after inserting null packets corresponding to the discarded packet count in between the two consecutive program packets.

4. (Currently Amended) A program recording/reproducing apparatus according to claim 3, further comprising:

a speed detecting unit that detects ~~means for detecting~~ a speed of the ~~streaming~~ streaming signals based on the number of packets contained per unit time when receiving the streaming signals,

wherein said speed detecting unit ~~means~~ outputs the program signals at the speed detected.

5. (Currently Amended) A program recording/reproducing apparatus according to claim 3, further comprising:

a speed detecting unit that detects ~~means for detecting~~, during a reproducing process, a speed of the streaming signals on the basis of time management information contained in the streaming signals,

wherein said speed converting unit ~~means~~ outputs the coded program signals at the speed detected.

6. (Currently Amended) A program recording/reproducing apparatus according to claim 3, wherein said recording unit ~~means~~ records one control packet structured in the same format as the program packet as substituted for discarded packet, thereby recording a discarded packet count of the packets discarded between two consecutive program packets.

7. (Currently Amended) A program recording/reproducing apparatus according to claim 3, wherein said recording unit ~~means~~ records a discarded packet count of the packets discarded

between two consecutive program packets at every interval therebetween, thereby recording a discarded packet count of the packets discarded between two consecutive program packets.

8. (Currently Amended) A program recording/reproducing apparatus according to claim 3, wherein said recording unit ~~means~~ records a stream management packet as a first recording packet of the predetermined coded program signal.

9. (Currently Amended) A program recording/reproducing apparatus according to claim 8, wherein said recording unit ~~means~~ records a program packet containing time management information after the stream management packet, and subsequently records an intra frame coded program packet.

10. (Currently Amended) A program recording/reproducing apparatus according to claim 3, wherein said recording unit ~~means~~ records each program packet and the discarded packet count of the packets discarded between the two consecutive program packets on a magnetic tape, a magnetic disk, or an optical disk.

11. (New) A method of recording and reproducing predetermined program signal packets that have been time-division-multiplexed with a plurality of other program signal packets into a streaming multiplexed signal, the method comprising:

extracting the predetermined program signal packets from the streaming signal;

discarding other program signal packets in the streaming signal;

recording the extracted predetermined program signal packets and a count of the number of discarded packets between each extracted packet on a recording media;

reading the predetermined program signal packets and the discarded packet count from the recording media;

generating null packets corresponding to the discarded packet count; and

outputting the predetermined program signal packets after inserting the generated null packets corresponding to the discarded packet count between nonconsecutive program signal packets.

12. (New) A method for recording and reproducing predetermined program packets according to claim 11, wherein the discarded packet count is recorded in a control packet structured in the same format as a program packet.

13. (New) A method for recording and reproducing predetermined program packets according to claim 11, further comprising:

recording a count of the number of discarded packets between nonconsecutive extracted packets at every interval there between.